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REMARKS:

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APPENDED DOCUMENT CONTAINS CODEWORD MATERIAL

Appended document contains classified information within
the meaning of Section 798, Title 18, United States Code.

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7 AUG 1959

MEMORANDUM FOR: ERA Division Chiefs
Executive Secretary, EIC/S
Chief, Factory Markings Staff
Chief, Intelligence Information Staff

SUBJECT: Preliminary Survey of Possible Applications of
Electronic Data Processing Machines within ORR

REFERENCE: Memorandum to Central Reference Advisory Group
(CRAG) from Mr. [REDACTED] 3 August 1959
(attached)

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1. [REDACTED] was designated the ORR member of an ad hoc CRAG task force under the leadership of [REDACTED] of OCR, established for the purpose of conducting a preliminary survey of possible applications of electronic data processing machines in the various components of the DD/I area. It is my understanding that the results of the several surveys made at this time will be combined into a single progress report on findings, in accordance with a request of the DD/I.

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2. [REDACTED] informs me that, in his survey, he has conferred with appropriate officers in most of the components of ERA and in selected OAD Staffs. He further indicated that the statements included in the referenced memorandum were for the most part cleared with the responsible officers of the various components concerned.

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3. It is not always easy to recognize tasks in the handling of data which can be performed by electronic processing machines. It is even more difficult to foresee the extent to which manipulation or computation of such data can be carried forward by machine process and to estimate whether or not savings of one type or another would be obtained through use of machines for these tasks. None of us are fully knowledgeable regarding the capabilities of the various machines currently available and each of us should make every effort to recognize possible ways of making effective use of these machines. To this end, I request everyone to cooperate fully with [REDACTED] in his further efforts to examine the problem within ORR.

THE ATTACHED DOCUMENT CONTAINS
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**SUBJECT: Preliminary Survey of Possible Applications of Electronic
Data Processing Machines within ORR**

4. Any comments you may have regarding the referenced memorandum will be appreciated and should be forwarded to my office by c.o.b. Tuesday, 11 August.


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OTTO E. GUTHE
Assistant Director
Research and Reports

Enclosure:
Referenced memorandum.

cc: Ch/E/RR

Distribution:

Orig. - Ch/E
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OAD/RR:OEGuthe:amm/2817 (6 August 1959)

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SC-04965/59

3 August 1959

TO: Chairman, Central Reference Advisory Group (CRAG)
THRU: Assistant Director, Research and Reports *Noted by AD/RK*
THRU: Chief, Publications Staff, ORR
FROM: Chief, Accounts Section, Publications Staff, ORR
SUBJECT: Preliminary Survey for the Central Reference Advisory Group (CRAG) on the Possible Applications of Electronic Data Processing Machines (EDPM) in the Office of Research and Reports (ORR).

1. Reason for the Survey.

As requested by [REDACTED] the Chairman of the Central Reference Advisory Group (CRAG), a preliminary survey has been made of areas in the Office of Research and Reports (ORR) for which further study may be useful within the terms of reference as set forth in CRAG 9/1-59, 9 July 1959. This memorandum lists such areas in terms of the potential application of Electronic Data Processing Machines (EDPM). No attempt has been made to evaluate the necessary requirements for time, cost, or manpower.

2. Results of the Survey.

The survey indicated two general areas which are susceptible to greater exploitation by the application of EDPM -- economic analysis and general data processing -- and several other suggestions generally pertinent to the terms of reference.

3. Economic Analysis.

The application of EDPM to various forms of economic analysis would be limited in many ways by a sparpity of information -- that is, gaps in intelligence -- which impose a restriction on many forms of research and analysis that normally might be fruitful. Among the types of analysis limited by gaps in intelligence are detailed matrices of the economies of the Sino-Soviet Bloc, linear programming of some of the expected existing interrelationships of the Bloc economies, and general problems relating to operations research. Ever-increasing new techniques in EDPM and the growing availability of data from the Bloc lead to the anticipation that many of the restrictions now limiting EDPM research can be overcome.

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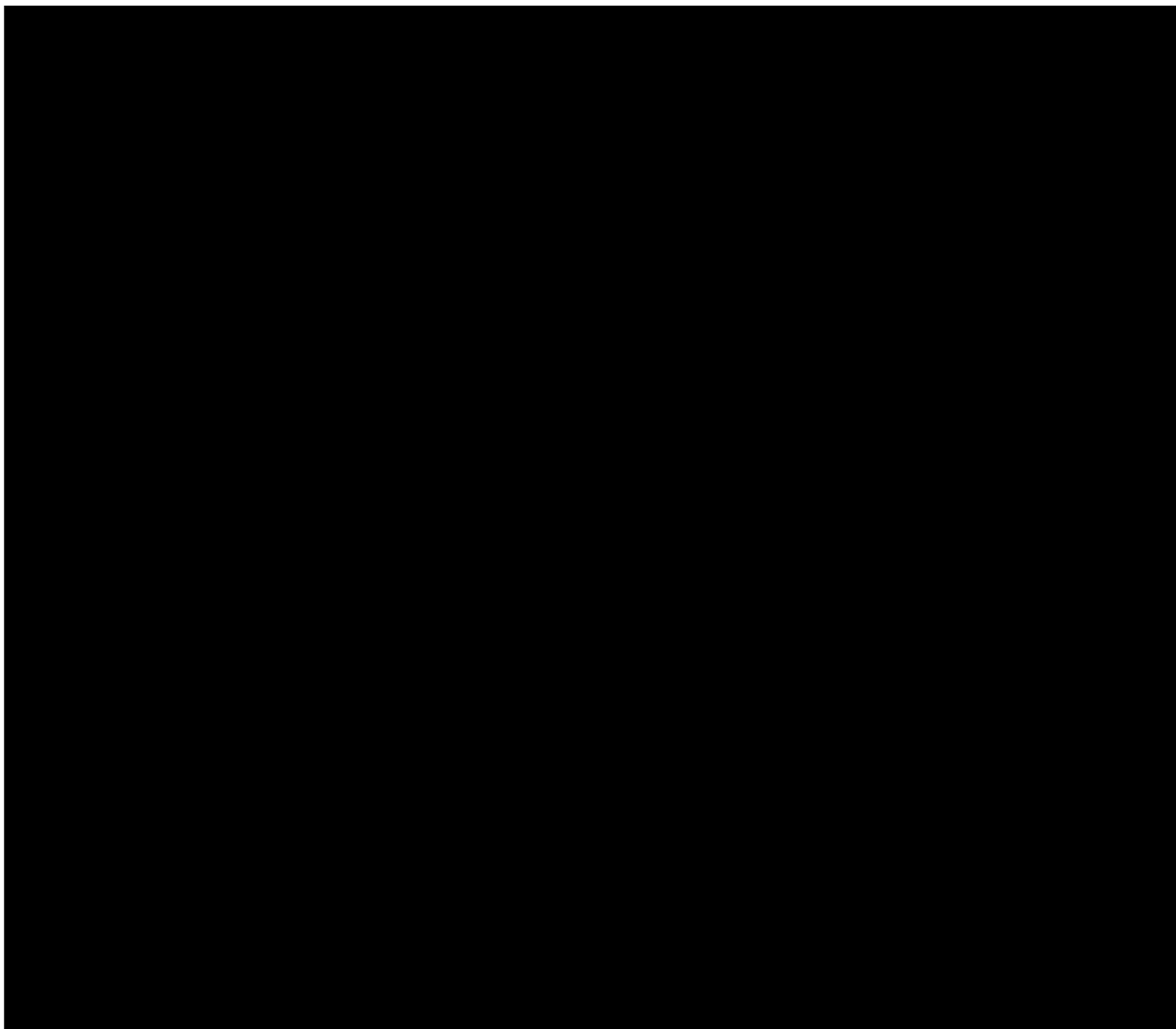
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SUBJECT: Preliminary Survey for the Central Reference Advisory Group (CRAG) on the Possible Applications of Electronic Data Processing Machines (EDPM) in the Office of Research and Reports (ORR).

It also is possible that much of the data now available can be stored in a system which will lend itself to mathematical manipulation and easy retrieval when desired. The most obvious and promising applications of EDPM to economic analysis are the following:

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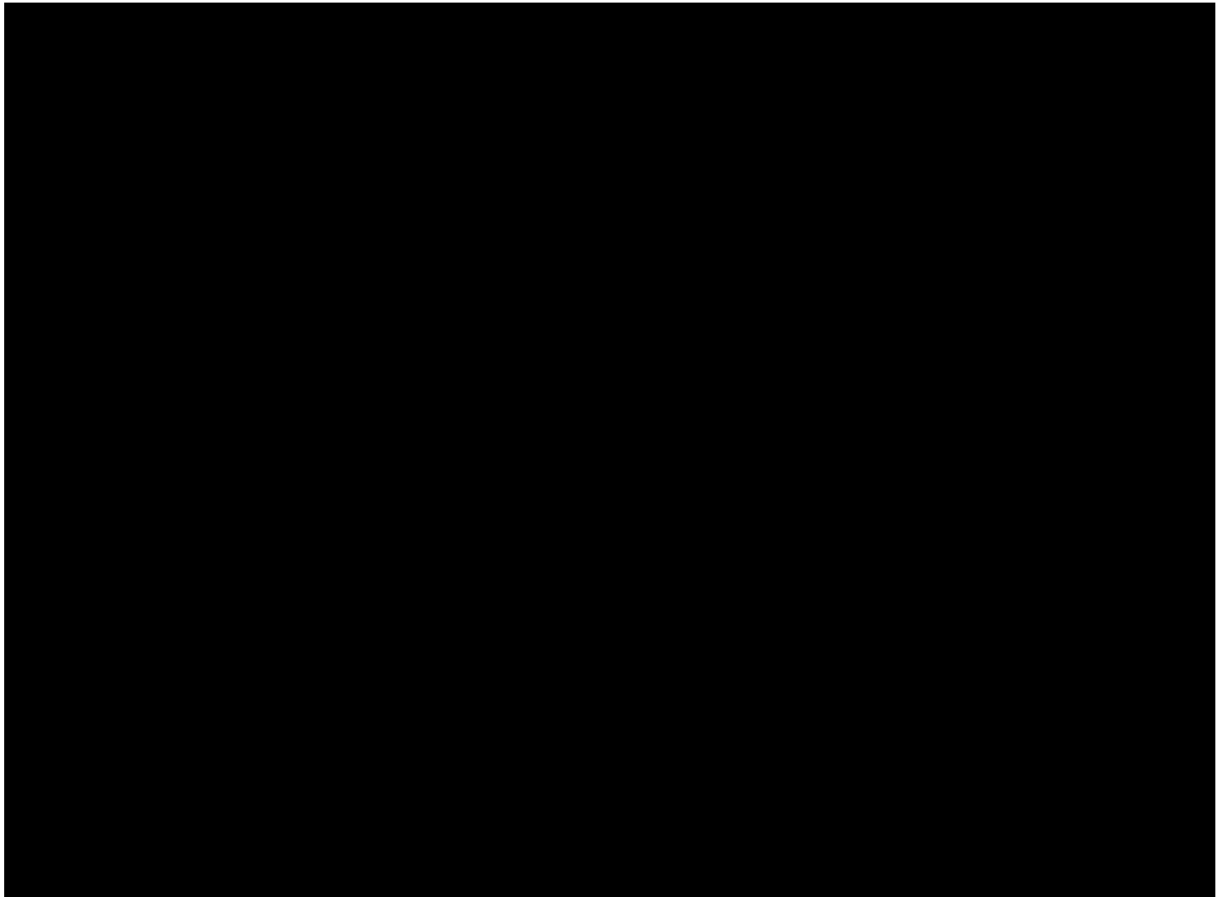
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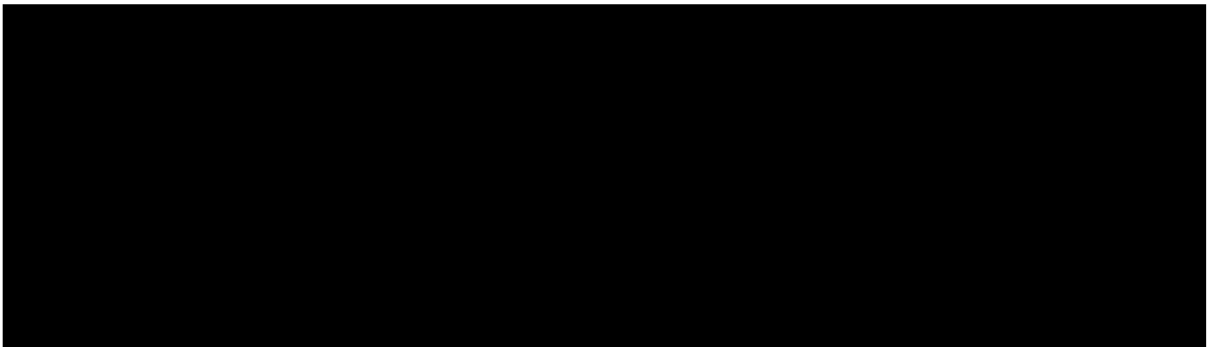
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SUBJECT: Preliminary Survey for the Central Reference Advisory Group (CRAG) on the Possible Applications of Electronic Data Processing Machines (EDPM) in the Office of Research and Reports (ORR).

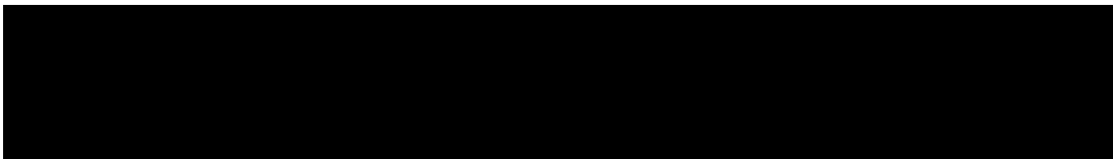
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5. Ideas Indirectly Related to the Survey.

Several ideas indirectly related to this study were obtained through discussions and from pertinent literature.

a. Document Translation.

The potentials inherent in the application of EDPM to document translation elicited an enthusiastic response from various sectors of ORR. The huge flow of foreign language material into ORR would provide ample opportunity for the application of EDPM, and such application would permit an increase in the coverage of foreign language sources within ORR with a lesser drain on the time of analysts.

b. Training in EDPM Procedures.

Whether or not EIA increases its EDPM effort (through additional purchase or rental of machines or time), it is suggested that at least one intelligence officer from each of the components of the Agency -- through the office level or its equivalent -- be trained in EDPM procedures. The growing application of EDPM in the field of intelligence makes the need for trained personnel apparent, and the experience of industry has indicated the advantages in training

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members of the organization familiar with the problems peculiar to the organizations in preference to hiring an outsider with previous EDPM experience, but with no experience in the organization. The additional problems of security clearance and a tight labor market make the hiring of outsiders even less feasible for CIA.

Before undertaking a training program for agency personnel, however, ORR might call in consultants to survey ORR's over-all requirements in the field of EDPM and to make recommendations in regard to the type and length of training required, the individuals to be trained, and the institutions offering such training. ERA has already suggested that during 1961 an external research contract be let relative to the application of EDPM to intelligence problems within ORR.

c. Education of Middle Management.

Along with the training of Office programmers, it also is considered important that the middle management of CIA receive education in EDPM and its capabilities. Many individuals in this category, although recognizing the ability of EDPM to handle nonintelligence problems, fail to appreciate the potential application of EDPM to intelligence. These individuals might be given greater exposure to EDPM capabilities by the following: lectures given by intelligence officers associated with EDPM, distribution of articles and books on EDPM, and visits to other intelligence installations where EDPM has been applied successfully to problems similar to those of CIA.

d. Potential Long-Term Results

If CIA is to maintain its position as a central intelligence function, it should at least stay abreast of all developments in EDPM techniques. Although the short-term results of the application of EDPM to intelligence may not immediately be as productive as desired, the potential long-term results make worthwhile further active exploration of EDPM.

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